

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Dr. Klaus BARTSCH
U.S. Serial No. : To be assigned
Filing Date : Herewith
Title of Invention : PROCESS FOR THE PREPARATION OF L-PHOSPHINOTHRICIN BY ENZYMATIC TRANSAMINATION WITH ASPARTATE

745 Fifth Avenue
New York, NY 10151

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Date of Deposit: October 26, 2001

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Charles J. Bartsch
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INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Enclosed is a copy of the following references for this application:

1. United States Patent No. 5,221,737 dated June 22, 1993;
2. United States Patent No. 4,826,766 dated May 2, 1989;
3. International Patent No. WO 98/53088 dated November 26, 1998;

4. European Patent No. 477,902 dated April 1, 1992;
5. European Patent No. 249,188 A2 dated December 16, 1987;
6. European Patent No. 249,188 A3 dated January 25, 1989;
7. European Patent No. 135,846 dated April 3, 1985;
8. European Patent No. 344,683 dated December 6, 1989;
9. European Patent No. 349,965 dated January 10, 1990;
10. European Patent No. 248,357 A2 dated December 9, 1987;
11. European Patent No. 248,357 B1 dated July 28, 1993;
12. German Patent No. 3750523 dated February 2, 1995;
13. German Patent No. 2717440 dated December 1, 1777;
14. German Patent No. 2856260 dated July 5, 1779;
15. Bartsch, et al., "Stereospecific production of the herbicide phosphinotrichin (glufosinate): purification of aspartate transaminase from *Bacillus stearothermophilus*, cloning of the corresponding gene, *aspC*, and application in a coupled transaminase process," *Appl. Environ. Microbiol.* Oct. 1996, Vol. 62, No. 10, pp. 3794-9;
16. Fotheringham, et al., "Biocatalytic production of unnatural amino acids, mono esters and *N*-protected derivatives," *Chimica Oggi/Chemistry Today*, Sept./Oct. 1997, pp. 33-37;
17. Taylor, et al., "Novel biosynthetic approaches to the production of unnatural amino acids using transaminases," *Tibtech*, Oct. 1998, Vol. 16, pp. 412-418.

10/018331
JC Rec'd PCT/PTO 26 OCT 2001
PATENT
514413-3893

REMARKS

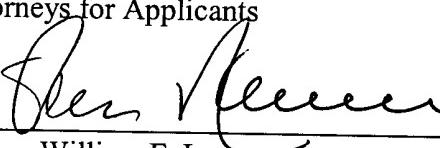
Entry of this Information Disclosure Statement and an early examination on the
merits are respectfully solicited.

Please charge any additional fees to Deposit Account No. 50-0320.

Respectfully submitted,

FROMMER LAWRENCE & HAUG LLP
Attorneys for Applicants

By


William F. Lawrence
Reg. No. 28,029
Tel. (212) 588-0800

WFL/ yrp
Encs.

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Sheet 1 of 2

Based on Form PTO-1449 (3/90) LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)				ATTY. DOCKET NO.		SERIAL NO.	
				514413-3899			
				APPLICANT			
				Dr. Klaus BARTSCH			
FILING DATE Herewith				GROUP			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,221,737	06/22/93	Bartsch et al			
	AB	4,826,766	05/02/89	Rozzell			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AC	98/53088	11/26/98	WIPO			YES
	AD	477,902	4/1/92	Europe			NO
	AE	249,188 A2	12/16/87	Europe			
	AF	249,188 A3	1/25/89	Europe			
	AG	135,846	04/3/85	Europe			
	AH	344,683	12/6/89	Europe			
	AI	349,965	01/10/90	Europe			
	AJ	248,357 A2	12/9/87	Europe			
	AK	248,357 B1	07/28/93	Europe			
	AL	3750523	2/2/95	Germany			
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FILING DATE Herewith			GROUP				
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
	AM	2717440	12/1/77	Germany			YES NO
	AN	2856260	7/5/79	Germany			
OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AO	Bartsch, et al., "Stereospecific production of the herbicide phosphinothricin (glufosinate): purification of aspartate transaminase from <i>Bacillus stearothermophilus</i> , cloning of the corresponding gene, <i>aspC</i> , and application in a coupled transaminase process," Appl. Environ. Microbiol., Oct. 1996, Vol. 62 No. 10 pp. 3794-9.					
	AP	Fotheringham, et al., "Biocatalytic production of unnatural amino acids, mono esters and N-protected derivatives," Chimica Oggi/Chemistry Today. Sept./Oct. 1997, pp. 33-37.					
	AQ	Taylor, et al., "Novel biosynthetic approaches to the production of unnatural amino acids using transaminases," Tibtech, Oct. 1998, Vol. 16, pp. 412-418.					
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